

ABSTRACT OF THE DISCLOSURE

It is an object of the present invention to reduce contact resistance of a fuel cell cooling section of stamped metal and thereby to improve output capacity of the fuel cell. The present invention provides a fuel cell having a stack structure of several unit cells, each containing electrolyte membrane electrodes, gas diffusion layer provided on each side of the electrode and metallic separator having corrugated passages and coming into contact with each gas diffusion layer, and a separator for cooling provided in the stack structure, wherein the separator for cooling is provided with an elastic and/or compressive and electroconductive intermediate sheet held between the passage planes, and a gasket in the portion other than the passage plane.